Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



a TS 1577 , A3 U52 U.S. DEPT. OF AGRICULTURE NAT'L GOIG, LIBRARY REPORT NO. 8

JAM 25 74

PROCULEMENT SECTION CURRENT SERIAL RECORDS

Cotton Fiber and Processing Test Results

HIUP II





Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 26, 1971

This is the eighth of a series of reports of fiber and processing test results from the 1971 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1971

Discussion of Test Results

Cotton testing laboratories of the Consumer and Marketing Service, USDA, report that short staple samples, to date, are coarser and weaker than last season. Yarns spun from these samples are weaker with higher appearance grades. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested through November 19, 1971 are longer and weaker than those tested through the same period a year ago. Yarns spun from these samples show higher appearance grades.

Medium staple samples from the Southeast are weaker than last season. Yarns spun from these samples show higher appearance grades with more imperfections.

South Central medium staple samples are longer and finer than last year. Yarns spun from these samples show higher appearance grades.

No additional medium staple samples were received from the Southwest during this report period. However, samples received, to date, are shorter and weaker at 1/8-inch gage strength than last season. Picker and card waste is lower. Yarns spun from these samples show fewer imperfections than a year ago. Average spinning potential yarn number is lower.

Medium staple samples from the West show less picker and card waste than last season. Yarns spun from these samples are about the same quality. Average spinning potential yarn number is lower.

Averages for all long staple samples tested, to date, are less uniform, finer and weaker than through the same period a year ago. Picker and card waste is higher while comber waste is lower. Yarns spun from these samples are weaker with higher appearance grades and fewer imperfections.

Long staple samples from the Southeast are less uniform, finer and weaker at zero gage strength than last season. Picker and card waste is higher. Comber waste is higher. Carded yarns spun from these samples are weaker with higher appearance grades and more imperfections. Combed yarns are about the same as a year ago.

South Central long staple samples are longer and finer than through the same period last season. Fibers are weaker at zero gage strength and stronger at 1/8-inch gage strength. Picker and card waste is higher while comber waste is lower. Carded yarns spun from these samples are stronger with higher appearance grades and fewer imperfections. Combed yarns are stronger with lower appearance grades and more imperfections. Average spinning potential yarn number is higher than a year ago.

Long staple samples from the West are longer and weaker than a year ago. Shirley Analyzer nonlint content and comber waste are lower while picker and card waste is higher. Yarns spun from these samples are weaker with higher appearance grades and fewer imperfections. Average spinning potential yarn number is higher.

Extra long staple, American Pima, samples from the West are shorter and weaker at 1/8-inch gage strength than last season. Picker and card waste is higher. Yarns spun from these samples show higher appearance grades.

-4-

Averages of fiber and processing tests from selected gin points in the United States through November 19, 1971 Table 1.--Cotton:

Processing test results	Yarn quality	1 8	Index No. Yarn	116 25 44 120 25 38	102 17 61 110 21 62	110 19 62 115 . 20 63	118 2 3 65 121 19 59	117 21 71 120 22 68	110 19 64 115 20 63	5 2 3
Processin	Yarn	Skein Astr.	Lbs	91	103 101	102 105	103	118	105 106	h (22s)
		P & C waste	Pct.	4.9	9.9	6.0	6.1	7.0	5.8	0.5
		S A nonlint	Pct.	8.8 7.4.	3.5	99	8 8 9 0	9.4.	3.1	0.5
	strength	1/8" gage	G/tex	22	23 22	22	53 55 55	25	53 55 55	7
results	Fiber	Zero gage	Mpsi	97.	83	8 2 8 1	98	93	83	Q
Fiber test	Mike	ness	Rdg.	7.0	t. 5.4	4.5	4.5	44.33	44	٥.
Fibe	graph	50/2.5 unif.	Pct.	7 7 7 7 7	45 45	45 45	46 45	45 45	45	nt dif- 2/ 0.02 2
	Fibrograph	2.5% span	Inches		1.08	1.08	1.09	1.10	1.08	0.02
	Lots	tested	No.	20	†††	87 94	41 27	23	229 188	
	Staple group Area, and	Crop year		Short Staple: Southwest 1970	Medium Staple: Southeast 1970 1971	South Central 1970 1971	Southwest 1970 1971	mest 1970 1971	U.S. Average 1970 1971	Significant dif- ference 2/

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Averages of fiber and processing tests from selected gin points in the United States through November 19, 1971 1/ (Continued)

Table 1.--Cotton:

						-5-				
		SPY	No	99	61	76	68		m	
	-	ctns	No	10	9	21 15	13	a a	α	
		Imprfetns card comb	No.	21	27	32.			α	
	Kesults	Quality Appearance rded combed	Lbs. Indx Indx Carded & Combed Yarn	119	120	100	112 21 113 22 2	115	(\)	
- -	Test	Yarn Quality Appearan d carded com	Indx ed & Co	103	93	91 10 2	98		10	
-	rocessing	gth	Lbs.	126 121	12 3	153 148	134	67	4 (22s) 2(50s)	
-	123	Strength carded com	Lbs. I 22s (110	100	136 132	117	Pima	4 (22s)	
		Comber Waste	Pct.	16.4 17.0	20.9	15.4	16.7	Am eri can 7	0.5	
		P&C Waste	Pct.	9.6	8.0	7.4	8 6 6 4	Ame 6.7	0.5	quality
		SA Non- lint	Pct.	9.4.	† 8° † †	0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	t.0	9.9.	0.5	1
	t.s	ngth 1/8" gage	G/tx	23	23	28	25	35	ч	of modal
	Kesul	Strength Zero 1/8 gage gag	Mpsi	80 80	98 84	93	87 84	88 88	α	samples
	Test Results	th Stree Unif Mike Zero	Rdg	4.7	4.7	w w & &	יי ל ל ל ל	9 m m	0.0	of sar
	님	th Unif	Pct.	45 43	75 75	††	† 24 † 24	30	α	nber
	-	Span U	In.	1.15	1.15	1.17	1.16	1.52	0.00	limited number
		Lots	No.	12	നവ	7,	22	r n		
	Stanle group.	Area, and Crop year		Long Staple: Southeast 1970 1971	South Central 1970 1971	West 1970 1971	U. S. Average 1970 1971	Extra Long Staple: West 1970	Significant Difference 2/	1/ Based on a

These guides are based upon averages of a number of lots and are not applicable to individual samples. Minimum differences considered to be significant for comparisons in this table. sased on a limited number of samples of modal quality નોજા

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1971

	Spin. Poten-	tial	N N		34	43	41
	Imprfect'ns Spin.	22sor 27 tx	No No		59	38	33
rns	Imprfe	8s or 74 tx	No No		43	55	46
rded Ya		22sor 27 tx	No		120	120	120
Processing Test Results - Carded Yarns	Appearance Index	lint Gra Yel Waste 8s or 22s or or 22	No		6.5 5.5 130 120 43 29	94 7.0 6.0 120 120 55 38	82 7.0 6.0 120 120 46 33
st Resul		22s or 27 tx			5.5	0.9	0.9
sing Te	Elongation	8s or 74 tx	Lbs Lbs Pct Pct		6.5	7.0	7.0
Proces	th	22s or 27 tx	rps		80	9,6	
	Strength	8s or 74 tx	Tps		CENT 280	SCENT 314	RCENT 280
	Elon- S.A. Color gat'n Non- Raw Stock P & C	Waste	Pet		57 90 PERCENT 6-1 2-8 5 4 6-1 280	100 PERCENT 4 7.6 314	57 99 PERCENT 6.6 4.0 4 4 6.8 280
	or tock	Yel			4	4	4
	Color Raw Stoc	Gra	No		70	4	4
	S.A.	lint	Pct No No		2.8	71 4.6	4.0
ts	Elon- S.A.	1/8"	Pet		57	LX-57	57
lest Results	Fiber rength	1/8" Gage	G/tex		LANKART 57 19 6.	LANKART LX-571 20 6.4 4.6	LANKART 57 19 6.6
Fiber Test	Fiber Strength	Zero Gage	Mpsi		79	81	73
	Mike		Rdg		5.0	3.9	5.0
	tal raph	Unif	Pet		45	77	77
	Digital Fibrograph	2.5% span	티.		52 29 0.98	32 1.03	0.98
		Stple	32s		29	32	30
rea,	er		MI.	S	52		1/52
Production Area, Classification	& Sample Number	No Name & Code		SOUTHWEST CENTRAL TEXAS	COMMERCE 3 LM LT SP	ITASCA 3 LM LT SP 1/52	. TERRELL 2/52 30 0.98

1/ Reduced from 42 because of Bark

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971

1	1		1					-7-									
	Spin.	Poten- tial	NO NO	6 2	58	69	56	99	61	63 58	09	55	69	65	55	99	
	Imprfect'ns	50s or	실	21	13	12	14	24	15	17	18	14	21	22	1.9	16	
Yarns	Imprf	22s or 27 tx	No.	23	16	11	14	23	19	24	20	16	31	27	20	21	
Carded Y	ance	50s or	No	70	06	06	100	80	90	80 90	06	06	80	0,	90	06	
	Appearance Index	22s or 27 tx		100	120	120	120	110	120	100	120	120	100	100	110	011	
Test Results	tion	50s or 12 tx		5.2	4.0	5.3	4.7	5.2	5.0	5.0	4.9	3.9	5.4	5.2	4.3	ار در	
sing Te	Elongation	22s or 27 tx	اب	6.9	6.2	7.2	6.2	6.3	4.9	5.9	8.9	5.4	6.2	6.5	5.8	1.9	
Processing	Strength	50s or		32	29	36	35	44	32	34	34	26	41	37	27	39	
	Stre	22s or 27 tx		PERCENT 4 93	CENT 90	PERCENT 8 101	PERCENT	PERCENT 8 113	PERCENT 2 92	PERCENT 3 98 2 97	CENT 99	PERCENT 84	RC ENT	CENT 103	PEKCENT 7.8 36	PERCENT*	
	P & C	Waste	Pct	100 PEH	100 PERC! 5.9	90 PEF 5.8	75 PEF 6.5	100 PEF 5.8	100 PEF 5.2	85 PEF 7.3 6.2	100 PERC 6.3	100 PEF 8.0	100 PERC 6.8	80 PERCI	99 PE	100 PEH 7.1	
	lor Stock	Yel	읽	3	3	8	6	3	_ 4	20 80	_ w	3 1	3 1	m	4	2	
	Color Raw Sto		읽	m	3	3	3	2	~	6 2	Э	4	9	9	4	m	
		Non- Lint	Pet	3.1	2.9	3.7	2.9	3.2	3 2.2	4.6	2.8	3.5	2.7	3.3	3.9	4.1	
ts	Elon-	gat'n 1/8"	Pct	INE 16 8.3	201	K ING 11	1032B 5.6	417 5.9	21	201 5.7 5.9	KING 11 5.9	KING 11 5.8	417	INE 16 6.1	201	10328 6.1	in the area
st Results	er gth	1/8" Gage	G/tex	DELTAPINE 21 6.	COKER 21	DIXIE 23	MCNAIR 22	COKER 23	STONEVILLE 20 6.	COKER 22 23	01×16 21	DIX16 20	COKER 23	UEL TAPIN	CUKER 20	MCNAIR 23	
Fiber Test	Fiber Strength	Zero Gage	Mpsi	75	42	7.7	8 4	83	7.7	79 78	80	78	81	80	73	2 2	.00 per
I		Mike	Rdg	4.1	4.3	4.8	4.9	4.2	4.4	4.9	4.3	4.6	4.1	4.3	4.5	÷ ۥ	less than 100 percent
	al graph	Unif.	Pct	43	24	46	64	44	44	4 4 5 5	46	45	45	44	45	94	
	Digital Fibrograph		r <u>I</u>	1.11	1.03	1.11	1.03	1.13	1.06	1.10 1.03	1.07	1.01	1.09	1.10	1.04	1.04	or test
		Stple	32s	35	34	35	33	35	34	35	34	34	35	3.4	ж ф	35	ted f
rea,	er			45	41	51	51	41	41	51	51	52	51	51	45	۸ 51	selec
Production Area, Classification	& Sample Number	No Grade Name & Code	SOUTHEASTERN	ALABAMA CHEROKEE 2 SLM LT SP	GERALUINE 2 SLM	LAFAYETTE 1 LM	MONTGOMERY 2 LM	PRATIVILLE 2 SLM	RUSSELLVILLE 2 SLM	ST CLAIR 2 LM 3 SLM	SYLACAUGA 2 LM	GEORGIA BUSTWICK 3 LM LT SP	PINEHURSI 2 LM	SHELLMAN 3 LM	STAPLETUN 3 SLM LT SP	NURTH CARULINA LAURINBURG 3 LM	* 100 percent selected for tests,

-8-

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971--(Continued)

1	1 .	1						-8-								
	Spin.	Poten- tial	N	67 61	09	73		19	4	59	67	7.4	58	99	74	57
	Imprfect'ns	50s or	No.	18 14	28	25		15	10	13	13	01	Ξ	14	11	15
Yarns	Imprf	22s or 27 tx	N N	22 24	32	30		22	16	15	61	16	21	21	16	27
Carded Ya	ance	s or	01	100	70	80		100	1 00	100	100	1 00	06	06	100	06
	Appearance Index	22s or 127		120	100	100		120	130	120	130	120	120	120	120	120
Test Results	tion	50s or	اب	5.4	4.6	5.2		1.4	4.6	4.5	4 . 8	5.1	3.9	6.4	4.6	4.
	Elongation	22s or 27 tx	اب	6.8	4.9	6.5		6.3	6.2	0.9	6.5	7.1	5.9	6.3	0.9	1.9
Processing	ıgth	50s or		39	30	41		38	39	39	39	45	35	38	38	36
	Strength	22s or 27 tx		PERCENT 0 108 9 102	PERCENT 8 90	PERCENT 4 107		CENT 107	PERCENT 1 110	ILI ILI	PERCENT 1 112	PERCENT 2 119	PERCENT 9 105	PERCENT 7 109	PERCENT 3 105	PERCENT 9 107
	P & C	Wast	Pct	100 PE 8.0 7.9	100 PE	100 PEF		97 PERCENT 5.9 107	100 PER 4.1	100 PERCENT 6.4 111	95 PER 5.1	100 PEF 5.2	100 PEF 5.9	100 PEF 5.7	95 PEF 5.3	100 PEF 5.9
	or	Yel	N N	N M	· κ	2		2	2	3	2	2	2		ы	7
	Color Raw Stock	Gra	SI	m 4	5	4		2	2	7	2	2	2	7	2	2
	S.A.	Non- Lint	Pct	5.4	4 • 8	\$ • •		4.0	.3 1.9	3.8	2.7	2.4	2.6	3.0	2.3	3.2
ts	Elon-	gat'n 1/8"	Pct	201 6.6 6.1	201	417		INE 16 6.5	11LE 21.	11LE 21	INE 16 7.5	INE 16 7.6	5.3	11LE 21	SL-66 5.8	1LLE 213 6.2
st Results	er	1/8" Gage	G/tex	COK ER 21 23	COKER 21	COKER 22		DELTAPINE 23 6.	STONEVILLE 22 6.0	STONEVILLE 22 6.3	DELTAPINE 24	DELTAPINE 24 7	BRYCOT 21	STONEVILLE 22 6.	REX SL	STONEVILLE 21 6.3
Fiber Test	Fiber	Zero Gage	Mpsi	78	78	80		80	83	48	79	84	8	81	81	79
E4		Mike	Rdg	4 4	4.2	4.1		4.7	4.6	4.5	4.	3.7	4.4	4.3	4.0	4.3
	al raph	Unif.	Pct	46	40	45		9+	9 +	45	94	45	7,	45	94	45
	Digital Fibrograph	1	띠	1.11	1.12	1.13		1.12	1.09	1.09	1.13	1.12	1.09	1.09	1.10	1.08
		Stple	32s nued)	35 35	35	36		36	35	35	35	35	35	35	35	34
rea,	er		Conti	A LS 51 52	52	52		1/21	41	41	41	41	41	41	41	41
Production Area, Classification	& Sample Number	No Grade Name & Code	32s SOUTHEASTERN(Continued)	SOUTH CAROLINA CALHGUN FALLS 2 LM 3 LM LT SP 5	CHESTER 1 LM LT SP	MINTURN 3 LM LT SP	SOUTH CENTRAL ARKANSAS	CLARENDON 2 LM	DUMAS 2 SLM	ELAINE 1 SLM	EUDORA 2 SLM	KEISER 3 SLM	LEACHVILLE 3 SLM	LEACHVILLE 3 SLM	PARK IN 2 SLM	PROCTOR 2 SLM

1/ Reduced from 41 because of grass

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971--(Continued)

								-9-								
	Spin.	Poten- tial	N N	19	09	59	09	64	99	58	72	57	19	09	59	64
	ct'ns		No	13	15	19	91	16	17	19	91	12	12	12	12	12
rns	Imprfect'ns	22s or 5		21	21	30	21	22	22	28	25	12	18	20	15	1.1
Carded Yarns		50s or 2		06	06	06	06	100	06	100	06	06	06	30	06	80
	Appearance	s or	01	120	120	120	120	120	120	130	130	110	120	100	120	120
Results		50s or 22	4	4.6	9.4	4.6	4.4	3.5	9.4	4.1	1.4	4.7	5.1	5.2	4.8 5.3	5.1
ng Test	Elongation	s or	اب	6.5	6.5	6.3	6.2	5.4	9.9	5.8	6.5	6.2	6.3	8 • 8	6.3	6.5
Processing			S	39	37	37	36	56	38	36	39	31	35	36	31 35	35
A.	Strength	22s or 50s or	Lbs	PERCENT 7 111	100 PERCENT 5.8 107	100 PERCENT 5.4 108	70 PERCENT 5.8 105	75 PERCENT 6.6 86	100 PERCENT 5.0 108	100 PERCENT 7.0 106	00 PERCENT 5.2 110	PERCENT 3 92	100 PERCENT 6.3 102	PERCENT 6 103	PERCENT 4 94 5 102	100 PERCENT 6.4 100
	6	Wast	Pct	100 PE	100 PI	100 PE	70 PE 5.8	75 PI	100 PE	100 PE	100 P 5.2	85 PE	100 PE	100	85 PE	
	Color	Yel	일	9	9	9	3	60	n	3	2	W	m	2	<i>w</i> w	3
	CO	Gra	<u>8</u>	2	2	2	3	4	7	4	2	2	2	2		2
	A. A.		Pet	3.5	2.8	3 3	3.2	3.9	2.0	3	2.6	213	213	2.9	213 2.9 2.7	2.4
lts	Elon-	gat'n 1/8"	Pet	/ILLE 213 6.4	7.1	/ILLE 213 6.2	5.9	TONEVILLE 213	7.6	/ILLE 213 6.3	7.1	STONEVILLE 21 21 6.7	STONEVILLE 2.2	PINE 16 7.5	STGNEVILLE 2 21 6.6 22 6.5	DELTAPINE 16 22 6.9
st Results	i.e.	1/8" Gage	G/tex	STONEVILLE 23 6.	DELTAPINE 22 7	STONEVILLE 22 6.	DELTAPINE 21 5.	STONE 20	DELTAPINE 23 7	STONEVILLE 22% 6.	DELTAPINE 22 7	STONE 21	STONE 23	DELTAPINE 23 7	STGNE 21 22	DELTA 22
Fiber Test	Fiber	Zero 1/ Gage Ga	Mpsi	48	92	82	80	7.7	61	18	79	7.8	8	83	81 80	47
É		Mike	Rdg	4.5	4.3	4.5	4.4	7.7	4.6	4.8	4.3	5•1	6.4	4.3	7. 4. 4. 4. 4. 6. 4.	4 8
	- 1	Unif.	Pct	94	45	9	45	45	45	47	45	45	4	7,7	45	45
	Digital	2.5% span	티	1.07	1.11	1.09	1.06	1.07	1.09	1.10	1.14	1.09	1.08	1.10	1.07	1.39
-		Stple	2s med)	35	35	35	34	34	35	35	35	34	35	35	35	35
, g	;		3 ontir	41	41		41	51	1 +	_	41	41	4 1	41	41	41
Production Area,	Sample Number	Grade Name & Code	32s SOUTH CEWTRAL(Continued) ARKANSAS(Continued)	WIL SON	WYNNE 2 SLM 4	LOUISIANA LAKE PROVIDENCE 2 SLM 41	NATCHITOCHES SLM	OPELOUSAS 2 LM	SHREVEPORT SLM	SICILY ISLAND 2 LM 5	WATERPROOF 2 SLM	MISSISSIPPI BRUCE 2 SLM	CLARKSDALE SLM	DUDDSVILLE SLM	EDWARDS SLM SLM	EUMARDS . SLM
		S.	SOUT	3 6	2 S	L001	N I S	0f 2 L	S. I. S	Si	Z 2	MIS B	C 2	2 0	1 2	l 1

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971--(Continued)

, ,	ı							-10-								
		Poten- tial	외	58	55	19	59	61	09	58	99	99	70	62	59	63
	Imprfect'ns	50s or	외	18	17	13	14	10	21	17	19	14	10	19	13	18
arns	Imprf	22s or 27 tx	읾	24	21	19	14	14	22	23	24	20	12	30	13	17
Carded Yarns	rance	50s or 12 tx	요	06	70	80	06	90	06	06	80	06	06	80	100	06
1	Appearance Index	22s or 27 tx	요	100	100	110	120	110	110	110	100	120	120	100	120	110
Test Results	Elongation	50s or	Pet	8 • 4	4.8	5.7	4.8	5 . 8	5.3	5.2	5.9	5.5	5.7	5.4	5.5	5.5
Processing T	Elong	22s or 27 tx		6.3	0.9	8 . 8	6.3	7.5	7.1	6.5	6.9	9•9	7.1	9•9	7.0	7.5
Proce	Strength	r 50s or	1	33	31	38	33	0 7	38	35	39	40	39	39	36	37
		22s or 27 tx		PERCENT 9 96	CENT 92	PERCENT 5 105	PERCENT 3 98	CENT 108	PERCENT 3 107	PERCENT 1 100	CENT 106	PERCENT 8 108	PERCENT 1 108	PERCENT 3 109	PERCENT 2 100	CENT 106
	₩ %		Pct	100 PER 6.9	100 PERCENT 7.4 92	100 PER 5.5	100 PER 5.3	100 PERCENT 5.8 108	100 PER 8.3	100 PER 7.1	100 PERCENT 5.9 106	100 PER 6.8	100 PER 5.1	100 PER 5.3	99 PER 5.2	90 PERCENT 5.3 106
	Color W Stock	Yel	외	3	3	2	3	2	3	3	2	2	2	2	en	m
	Co	Gra	외	٣	2	1	-	-	m	2	2	-	2	2	2	-
	S.A.	Non- Lint	Pet	2.8	2.9	2.6	2.9	2.9	5.4	2.8	3.6	3.3	2.1	2.7	2.6	2.4
W	Elon-	gat'n 1/8"	Pet	LE 213 6.2	LE 213 6.1	E 16 7.6	LE 213 5.7	E 16 7.8	E 45A	LE 213 6.5	E 16 7.4	E 16 7.2	E 16 7.1	LE 7A 7.1	£ 16 7.8	LE 213
Results		.8" ge	/tex	ONEVILLE 1 6.3	STONEVILLE 21 6.	L TAP INE	STUNEVILL 23 5	LTAPINE	DELTAPINE 23 6.	S F ON EVILLE 22 6.	LTAPINE	DELTAPINE 22 7	LTAPINE 3	STONEVILLE 24 7.	DELTAPINE 21 7	STUNEVILLE 21 7.
Test	Fiber	0 1/ e Ga	1	ST0 21	ST0 21	DEL 22	ST0 23	DEL 23			DEL 23		0EL 23			
Fiber Test	Str	120	Mpsi	80	81	80	83	78	82	80	78	80	78	19	7.8	11
		Mike	Rdg	5.1	5.2	4.3	5.0	4.6	4.4	5.0	4.1	4.6	4.7	4.7	4.6	4.1
	Digital Fibrograph	Unif.	Pet	45	45	43	45	45	94	46	4	7	43	44	7,7	4 4
	Digital Fibrogra	1		1.10	1.10	1.14	1.08	1.15	1.09	1.10	1.14	1.17	1.14	1.12	1.11	1.07
		Stple	32s inued ied)	35	35	36	35	35	35	35	35	36	35	35	35	35
Area,	ser	e	(Cont	51	51	41	41	7 7	LE 51	LE 41	41	41	41	41	۲ 41	41
tion ifical	& Numl	Grade Name & Code	3AL	4	00	7	۲ A	BUR	NVIL	NVIL					ALLE	z
Production Area, Classification	& Sample Number	Name	CENT	NDOR	ENWO	NI SU	INDIANOLA 2 SLM	PANTHER BURN 2 SLM	ROBINSONVILLE LM 5	ROBINSONVILLE SLM 4	LΣ	STGVALL	LAKE	TRIBETT SLM	WATER VALLEY SLM	SSCURI SIKESTUN SLM
TE O	01	No	32s SOUTH CENTRAL(Continued) MISSISSIPPI(Continued)	GLENDORA 2 LM	GREENWOOD 2 LM	GUNNI SON 2 SLM	IND 2 SL	PAN 2 SL	ROBI 2 LM	ROBI?	SCOTT 2 SLM	STCV/	TRALAKE 3 SLM	TRIBE 3 SLM	WATER 2 SLM	MISSCURI SIKEST 2 SLM

-11

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971--(Continued)

									-11-									
	Spin.	7 +	No		63	58	99	53	62		64	75	89	58	98	73	80	75
	Imprfect'ns	50s or 12 tx	No		17	16	16	15	12		21	11	18	14	14	19	18	11
Yarns	Imprf	22s or 27 tx	No		17	11	15	20	16		27	12	21	19	20	27	27	18
Carded Ya	ance	50s or 12 tx	loi		06	06	06	06	100		06	100	06	001	100	90	06	100
1	Appearance Index	22s or 27 tx	읽		110	110	120	110	130		110	130	120	120	120	120	120	130
Test Results	ation	50s or 12 tx	Pct		9.6	4.8	5.8	4.7	5.0		3.7	4.7	4.2	3.7	4•3	4.3	4.3	3.8
ssing Te	Elongation	22s or 27 tx	Pct		7.0	6.2	7.0	0.9	6.5		5.5	0.9	5.4	5.7	0.9	5.7	5.7	5.2
Processing	Strength	50s or	rps		38	32	37	56	32		31	64	45	35	53	48	52	50
	Stre	22s or 27 tx	1 1		CENT 105	PERCENT 2 95	PERCENT 8 107	CENT 86	PERCENT		PERCENT 7 98	PERCENT 6 131	CENT 125	PERCENT	CENT 143	PERCENT 7 129	CENT 138	PERCENT 8 131
	P & C	Wast	Pct		98 PERCENT 5.7 105	95 PER 6.2	95 PER 5.8	85 PERCENT 6.7 86	90 PER 7.5		90 PER 5.7	100 PER 4.6	100 PERCENT 4.7 125	100 PER 5.1	100 PERCENT 4.7 143	100 PER	100 PERCENT 4.2 138	100 PER 4.8
	or	Yel	읽		6	3	2	3	m		6	3	3	2	3	9	3 1	3 1
	Color Raw Stock	Gra	ଥା		-	2	1	2	3		-	-	-		-	1	1	7
	S.A.	Non- Lint	Pet		3.1	3.5	3.3	2.0	AF 4.1		2.9	2.1	1.8	2.7	2.0	2.2	2.1	2.4
ts	Elon-	gat'n 1/8"	Pet		INE 16 7.5	LLE 213 6.4	LTAPINE 16 1 7.8	KING 11	SMUOTH LEAF 6.0 4		NE 16 6.2	4-42	SJ-1 5.0	NE 16 5.4	5.2 5.2	SJ-1 5.7	53-1	5,1-1
st Results	er	1/8" Gage	G/tex		DELTAPINE 21 7.	STONEVILLE 19 6.	DELTAP 21	01XIE 1	REX SME 20		DELTAPINE 24 6.	ACALA 4	ACALA S	DELTAPINE 16 22 5.4	ACALA S	ACALA S	ACALA 3	ACALA 28
Fiber Test	Fiber	Zero	Mpsi		41	78	61	7.8	42		88	86	103	88	86	101	100	102
Į.		Mike	Rdg		4.4	4.8	4.2	4.3	4.5		4.5	4.4	4.4	4.4	0.4	4.6	6. 0	9.4
	al ranh	Unif.	 Fet		45	45	45	40	45		44	94	45	45	46	9 +	45	94
	Digital		띠	_	1.10	1.07	1.09	1.01	1.07		1.09	1.11	1.10	1.07	1.16	1.15	1.13	1.11
		Stple	32s	inued	34	35	35	33	34		35	35	35	34	36	36	36	36
rea,	e r			(Cont	41	41	41	45	51		31	31	31	31	31	31	31	31
Production Area,	& Sample Number	No Grade		SOUTH CENTRAL(Continued) TENNESSEE		CORDOVA 1 SLM	GADSDEN 2 SLM	MCKENNIE 2 SLM LT SP	MILLINGTON 2 LM	WESTERN ARIZONA	PARKER 1 MID	CALIFORNIA ARVIN 1 MID	BAKERSFIELD 1 MID	BRAWLEY 2 MID	CHOWCHILLA 1 MID	CORCORAN 1 MID	DOS PALOS	HURON 1 MID

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1971-- (Continued)

			,					-12-		
	Spin.	Poten- tial	8	42	80	16	74	79 81	54	53
	Imprfect'ns	22s or 50s or 27 tx 12 tx	N O	12	13	19	11	12	31	15
arns	Impri	22s or 27 tx	N N	18	18	7.2	11	18	42	19
arded Y	ance	50s or 12 tx		100	06	06	100	90	06	00 1
lts - C	Appearance Index	22s or 27 tx	S	120	120	120	130	120 120	011	120
est Resu	ation	50s or 12 tx	Pet	4-4	4.4	4.4	4.4	4.5	4.4	4.5
Processing Test Results - Carded Yarns	Elongation	22s or 50s or 22s or 27 tx		5.8	5.9	5.8	5.6	5.7	5.9	6.2
Proce	ngth	50s or 12 tx	Ibs	52	52	51	50	49 51	33	33
	Strength	22s or 27 tx	Ibs	CENT 137	CENT*	CENT 136	CENT 135	CENT 133 134	CENT*	CENT*
	Color Raw Stock P & C	Waste	Pet	100 PERCENT 4.4 137	100 PERCENT* 4.1 137	100 PERCENT 5.6 136	100 PERCENT 4.3 135	100 PERCENT 4.2 133 4.6 134	100 PERCENT* 6.7 98	100 PERCENT* 4.7 98
	or	Yel	<u></u>	3	3	3	3	. e	7	3
	Color Raw Sto	Gra	<u>8</u>	2	-	2	-		4	2
	S.A.	Non- Lint	Pct	2.1	2.0	2.6	1.6	2.2	4 •8	3 1.7
Lts	Elon-	gat'n 1/8"	Pct	ALA SJ-1	4-42	5.6	5.5	3ALA SJ-1 17 5.6 18 5.7	INE 16 5.9	STONEVILLE 213 22 6.6
est Results	Fiber	1/8" Gage	G/tex	ACALA 27	ACALA 4-42	ACALA SJ-1 27 5.	ACALA SJ-1 28 5.2	ACALA 27 28	DELTAPINE 16 21 5.9	STONEV 22
Fiber Test	Fiber	Zero Gage	Mpsi	100	16	104	104	001	81	75
		Mike	Rdg	4.4	4.2	3.9	4.6	4.2 3.8	3.9	3.9
	Digital Fibrograph	Unif.	Pct	94	46	47	47	46	43	4
	Digital Fibrogra		티	36 1.14	1.14	1.19	1.10	1.11	1.10	35 1.08
		Stple	32s led)		36	36	35	35	35	35
Area,	ber		nued)	40	40	14	31	31	45	14
Production Area,	Sample Number	No Grade Name & Code	328 WESTERW(Continued) CALIFORWIA(Continued)	KERMAN 1 SLM PLUS	SAN JOAQUIN I SLM PLUS	SHAFTER 1 SLM	STRATFORD 1 MID	WASCO 1 MID 2 MID	WEST TEXAS COYANDSA I SLM LT SP	PECOS 2 SLM

* 100 percent selected for tests, less than 100 percent in the area

Table h --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1971

	Spin.	Foten- tial	No	69	42	9	56	02		70		11	81
	-	50s or 12 tx	윙	22 17	20	19	12 22 7	28		18		18 11	20
su	Imprfect'ns	22s or 56	1	29	24	24	25 8	36		21		22 14	19
Carded Yarns		or X	No.	80 90	90	06	100 100	06 90		06		80 80	80 90
1	Appearance Index	22s or 50s 27 tx 12 t	No No	110	120 120	110	110	90		120		100	100
Test Results	-	50s or 2	Pet	5.3	5.3	5.4	0 4 0	5.0		5.3		5 • 9 • 9	5.6
	Elongation	22s or 5	Pet	6.3	6.6	4.0	6.9	6.5		6.3		6.0	6.5
Processing	q;	50sor 12 tx 2	Lbs	39 45	39	37	333	37		45		46	53
	Strength	22s or 5 27 tx]	Lbs	CENT 107 119	PERCENT 1 108 1 121	ب	96 121	PERCENT 4 103 6 120		CENT 114 129) PERCENT <u>1</u> 3.7 120 7.1 142	PERCENT <u>1</u> 8 136 9 152
	P&C and	<u>ب</u>	Pet	100 PERCENT 10.2 107 * 14.5 119	100 PEF 9.1 15.1	100 PE	10.4 10.4 22.8	100 10. 19.		100 PERCENT 10.0 114 * 14.7 129		100	100 7. 14.
	lor Stock	Yel	8 	۸*	m *	ω,	* ~ *	m *		* *		4 *	m *
	Color Raw Sto	Gra	욁	m	4	М	æ	5		2		2	
	S.A.	Lint	Pet	6. 4	3.5	5.0	4.7	0.9		5.2		2.7	2.2
S A A	Elon-	1/8"	Pet	310 5.8	310	310	6.3	310		31¢ 5.9		1517-70	5.5
t Results	er gth	1/8" Gage	G/tex	CUKER 23	COKER 22	CUKER 23	21	COKER 21		COKER 24		ACALA 24	ACALA 27
Fiber Test	Fiber Strength	Zero		81	7.8	78	80	78		88		96	46
E E		Mike	Rdg	4.2	4.3	4.6	4.3	3.9		6.4		3.9	& &
	hd ph	Unif.	Pet	43	45	44	7 7	41		£ 4		45	4
	Digital Fibrograph	2.5% span	티	1.18	1.17	1.12	1.12	1.15		1.21		1.14	1.21
		Stple	32s AREA	36	35	35	35	36	AREA	37	AREA	36	8
ea,	H		m 4	51	51	45	15	A GS 52	A	51	∢	32	31
Production Area, Classification	& Sample Number	No Grade Name & Code	SOUTHEASTERN	ALABAMA ORRVILLE 3 LM	GEORGIA COPER 2 LM	MADISON 2 SLM LT SP	3 LM	SOUTH CAROLINA RIDGE SPRINGS 3 LM LT SP 5	SOUTH CENTRAL	MISSISSIPPI TUNICA 2 LM	WESTERN	ARIZCNA ELFRIDA 1 MID LT SP	NEW MEXICO DEXTER 1 MID

* Comber Waste and Combed Yarn Data $\underline{1}/$ 100 percent selected for tests, less than 100 percent in the area

Table 5 -- Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1971

	i	۲. J						
	Imprfect'ns	80s o 7 tx	읾		1	o	-	2
	Imprf	50s or 12 tx	읾		1	2	2	2
rns	ance	80s or 7 tx	읽		130	130	120	120
nbed Ya	Appearance Index	50s or 12 tx	읾		130	130	130	130
ts - Co	tion	80s or 7 tx	Pct		5.2	5.2	5.2 130	5.2 130
t Resul	Elongation	80s or 50s or 80s or 50s or 80s or 50s or 7 tx 12 tx 7 tx 12 tx 7 tx 12 tx	Pct		5.9	5.9	5.7	5.7
ing Tes	gth	80s or 7 tx	Lbs		37	37	36	37
Processing Test Results - Combed Yarns	Strength	50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx	Lbs		65	89	94	19
	redmon	Waste	Pct		ENT 16.2	ENT*	16.1	ENT*
	Color Raw Stock P & G Comber	Waste Waste	Pct.		71 PERCENT 7.4 16.2	100 PERCENT* 8.4 17.3	95 PERCENT 7.5 16.1	100 PERCENT* 8.7 18.7
	ic Sock	Yel	읽		7	01 9	6.	10
	Color aw Sto	Gra Yel	읾		5	70	4	5
		Non- Lint	Pct		2.5	2.5	2.5	2.4
,,		gat'n 1/8"	Pet		9.1	7.5	7.1	6 • 6
st Results	er gth	1/8" Gage	G/tex		PIMA S-4	PIMA S-3	PIMA S-4	PIMA S-4
Fiber Test	Fiber	Zero Gage	Mpsi		16	96	8	66
124		Mike	Rdg		8°	ي. 8	0.4	3.8
	ay th	\$	Pet		32	30	29	32
	Array	>	티		1.48	1.49	1.47	1.43
2,		Stple	32s	AREA	46	77	46	7 7
Area	mber	ode			σ,	m	w	m
Production Area,	& Sample Number	No Grade Name & Code		WESTERN	AR IZONA SAFFORD 1	WEST TEXAS EL PASO 1	EL PASO 1	PECOS 1

* 100 percent selected for tests, less than 100 percent in the area